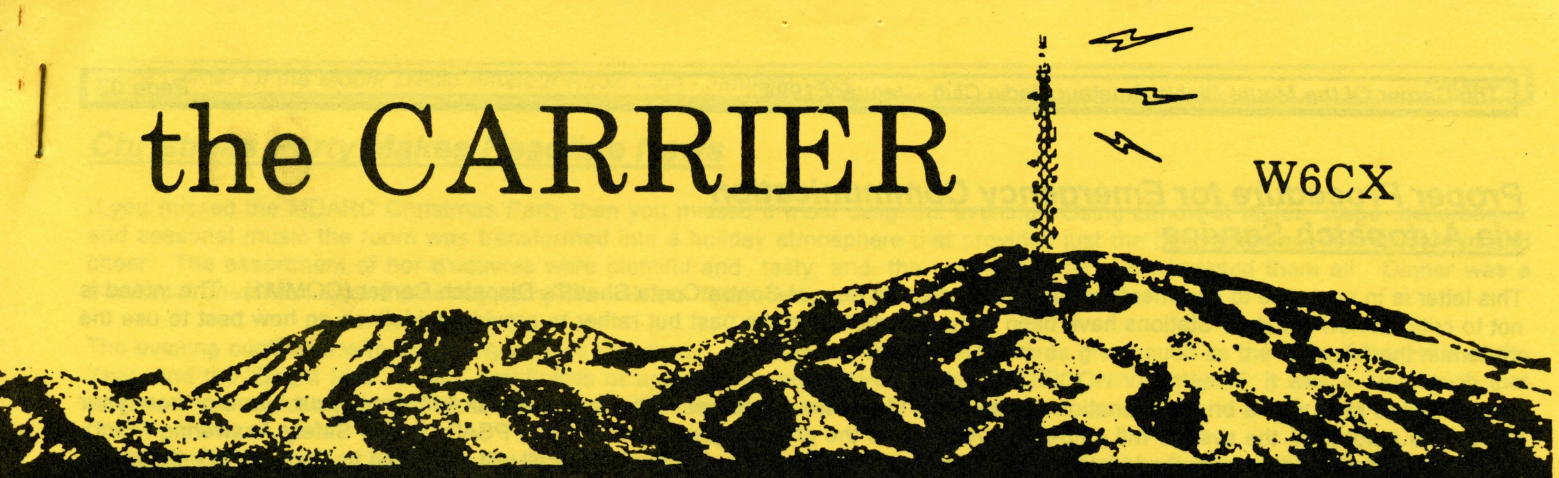
the CARRIER

W6CX



the MOUNT DIABLO AMATEUR RADIO CLUB

ARRL SPECIAL SERVICE CLUB

Volume XLI - Issue 1 - January 1994

Editor - Greydon H. Hicks, KC6SLE

Distribution: Jay Caldis, KT6Y, Walt Ebbett, KB6QIB, and George Jones, KI6YK

The opinions expressed in the Carrier are solely those of the author and do not necessarily reflect the opinions of either the Board of Directors or membership of MDARC unless the author is a member of the MDARC Board of Directors and is speaking in an official capacity.

FROM THE PRESIDENT

We have finished a successful year due to the efforts of somewhere between two to three hundred of our members who worked on one or more projects for the club. Some volunteers spent several hundred hours and some only a short time but it is the totality of the effort that makes us a great club.

The Christmas party was the most recent outstanding event which again was the work of many. Old faithful GEORGE ROUSH and BERTHA ROUSH put it together. George tripped off to the hospital the morning of the party and missed it. He is doing fine but is still in a snit about missing the affair. RICHARD SHAPPEE was master of ceremonies as well as producer and director of a PACIFICON Players skit with JOYCE SHAPPEE, JAY CALDIS, DICK BROWN, JOHN LYTLE and DICK SCHULZE. It may not be headed for Hollywood but at least the players had fun. ROB SYMS, who thinks anyone over 25 is ancient (and says so too), played a good Santa. PETE PERATA and JANE WALKER gave out a bunch of awards, PAUL GIRARD brought table decorations for over twenty tables, LAUREN STYLES and LIZ STYLES ran the doors prizes, and H.T. PAYNE worked the piano keys. Thanks to each of the members of the board of directors who brought hors d'oeuvres for the 175 people in attendance.

The budget for 1994, as approved by the board of directors, appears in this Carrier and will be considered at the general meeting on January 21. We have accumulated capital funds due in part due to PACIFICON. It is the intention of the board to develop in the next few months a long range plan for the use of this capital.

A few other items: The board voted to hold the auctions in March and September this year. The Novice and Technician classes as well as General upgrade classes will be given beginning in February. We also have a club telephone line, 932-6125, which is answered by a machine but you may leave messages which will be returned as needed. This is also the PACIFICON line. Our first scholarship will be announced at the January meeting.

Don't overlook the article and pictures on page 108, of the December issue of QST by one our own, RICHARD SHAPPEE, WA5HQJ, who writes about one of his many areas of expertise, transmitter hunting. Pictures are of SYD FURMAN, W6QWK and JIM BRUNK, N6BHX.

Dick Schulze, AA6DL, @ WA6AEO

JANUARY MDARC MEETING SPEAKERS

If you like maps, packets, and computers, January's speakers should spark you interest in a new phase of Amateur Radio; Automatic Packet Reporting System (APRS). Using packet radio to exchange longitude, latitude, elevation, heading, and speed, everyone monitoring the packet frequency and running the share-ware APRS program will see objects appear on a series of zoomable maps displayed on their computer screens. The system can be used to report the location of stations, public event routes, storms, emergency sites, and with the use of a GPS receiver, track a mobile unit. The share-ware also provides for automatic RDF triangulation, and will be used for the upcoming MDARC balloon launches. Bill Bliss, WB6LPG, of Half Moon Bay, and Ken Swaggart, K7KKE, of Foster City, will be our speakers. They have pioneered the use of this new amateur radio technology in the Bay Area, and will use video projection to demonstrate APRS.

John Stuart, KM6QX, MDARC VP

Proper Procedure for Emergency Communication via Autopatch Service

This letter is in response to comments made by Dispatchers here at Contra Costa Sheriff's Dispatch Center (COMM1). The intend is not to criticize how Amateur Stations have been using the system in the past but rather to provide guidelines on how best to use the system in the future.

I would like to start with a brief explanation of how the 911 system functions. Whenever you call 911, from your home or from your vehicle via autopatch, the system will auto-route your call to the proper agency, known as a PSAP (Public Safety Answering Point). This auto-routing is done using the location of your phone, i.e. if you live in Concord your call will be routed to Concord PD, if you live in a un-incorporated area of the county your call will be routed to Sheriff's Dispatch etc. An autopatch call will be routed to the PSAP that has jurisdiction where the system's phone line is located. This is important to keep in mind when you call using your radio and a autopatch. You should find out what PSAP will be answering your call, if possible, prior to using the system (Note: for the W6CX system Sheriff's Dispatch is the PSAP and for the WA6HAM system Walnut Creek PD will answer). Once you reach the PSAP they will have the ability to transfer you to any other PSAP in order to handle the nature of your call. This is important to keep in mind because there is a good chance that the PSAP answering will not have jurisdiction in the area you are calling from.

I would now like to give a couple of examples of problem calls we get. With out a doubt the most troublesome call is the hang up. It is the policy of all agencies to make an effort to determine the status of all 911 hang-ups. This is the case because there could be someone in desperate need at the location of a hang up. Most hang-ups from autopatches are probably from errors in entering a code. If this happens please stay on the line, explain who you are and that you have simply miscalled. If you do not the dispatchers and or officers many spend there time trying to determine if the call was valid or not, keeping them from other important tasks. One other common call is one that is answered by dispatch and the calling party starts in with the call and does not unkey until they have relayed the entire message. In most cases the dispatcher is trying to get them to stop so they can transfer the call to the proper agency. Unkey often to see if the dispatcher is ready for and copying all you are saying.

Finally I would like to give a example of how to make a emergency autopatch call. Before you even place the call get all of the facts you will need. This includes where you are, what the problem is, what services may be needed etc. Know the name of the street you are on and the direction of traffic. Try to identify cross streets or on/off ramps. You will be of little help if you can not describe the location and type of emergency. When you have all the information ready identify yourself on the radio and that you are placing a autopatch call and enter the proper code. When the dispatcher answers wait for them to ask what you need. Identify yourself as a HAM radio operator, give your name and very brief description of the problem, i.e. traffic accident on Willow Pass Rd Concord, unkey and wait for further instructions from the dispatcher. At this point you may need to be transferred to the proper agency. Standby while the dispatcher does this for you. When the other dispatcher answers repeat the description to them, unkey and wait for instructions. Remember to keep your transmissions short, sometimes the dispatcher may have to put you on hold to answer radio traffic or pick up another phone line. During busy times the dispatchers are doing many tasks simultaneously. Do not hang up until the dispatcher has gotten all required information from you and has hung up. When you are done with your call enter the hang-up code and identify that you are clear of the autopatch.

Your assistance in calling in emergencies as you come upon them is both helpful and appreciated by all, but only if you can be a source of timely and useful information. By following the example above and understanding how the system works you can be of great service to those in need. If you have any further questions on the system or how to use it I can be reached at 510 646-4566 (work) or via packet at KA6FUB@KA6FUB.#NOCAL.CA.USA.NA.

Steve Overacker, KA6FUB @ KA6FUB.#NOCAL.CA.USA.NA

RRRG Special Meeting December 13, 1993

A special Rocky Ridge Repeater Group meeting was held December 13 at the Stonebrook Convalescent Center in Concord to discuss the organization of a balloon launch organizing committee. Present were RRRG officers Dwane McGlothin, Richard Shappee, Jay Caldis and Kent Barham. The idea was tabled at the present time. Interested persons with ideas or suggestions should contact a RRRG officer.

Also voted upon, and approved, was a RRRG membership will be awarded as the prize to a random MDARC member who has renewed their MDARC membership by January 19, 1993.

Kent Barham, KD6JAC, Secty

Christmas Party Makes Headline News

If you missed the MDARC Christmas Party then you missed a most delightful evening. Using candle-lit tables, stage decorations, and seasonal music the room was transformed into a holiday atmosphere that provided just the right ambiance for fellowship and cheer. The assortment of hor d'oeuvres were plentiful and tasty; and, the sparkling cider complimented them all. Dinner was a traditional one of turkey and dressing complete with old fashioned pumpkin pie.

The evening continued with the yearly awards ceremony. Besides the established awards given such as the Kilroy Key, HAM of the Year, and the "Bright Idea" award, certificates of appreciation were given to the PACIFICON volunteers. It was a nice touch that enhanced the verbal and written acknowledgments already expressed.

Next came some Holiday singing that welcomed Santa Claus. He went straight to his work of handing out gifts and candy canes to the children. They all seemed delighted by his presents (is that a pun?) and dazzled by his demeanor.

What would the party have been without the silly PACIFICON Players skit entitled "A Visit From St. Radio?" As usual it was well rehearsed and well polished.....NOT! No doubt, a stage presentation that will be remembered and embellished well into the New Year.

The evening concluded with the customary raffle drawings and some more singing. Prizes in the raffle were bountiful. The winners seemed genuinely pleased with the choices they made. Singing of "Oh Come All Ye Faithful", and "We Wish You A Merry Christmas" allowed everyone to say Merry Christmas while they joined in gathering together to end the evening. If you missed this Christmas party, you really need to think about your priorities for next year's celebration. It's probably one festivity you really don't want to miss.

Joyce Shappee, KD6PNO @ WA5HQJ

HAM CLASSES ON THE HORIZON

The next HAM classes will commence Tuesday, February 1, 1994, at 7:00 P.M. at the Pleasant Hill Adult Center, 3100 Oak Park Blvd., Room 503, Pleasant Hill. The classes will cover Novice, Technician and General including code. Now's the time to upgrade! Call Jeff Jones, AB6MB, at 439-2514 for further details.

— 11 STORE BUYING POWER —

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INCOME/EXPENSE/BUDGET 1993
PROPOSED BUDGET 1994

INCOME	BUDGET 1993	12 MOS TO 12-31-93	PROPOSED 1994 BUDGET
ARRL Renewals	60.00	37.00	
Auction/Sales	2,260.00	2,457.52	2,500.00
Christmas Dinner			1,200.00
Door Prizes	1,700.00	1,691.00	1,700.00
Insurance (ARRG)	450.00	391.34	400.00
Interest	50.00	175.45	200.00
Member Dues 93/94	6,700.00	7,258.50	7,400.00
Patches/T-Shirts	200.00	470.50	400.00
Refreshments	700.00	684.42	700.00
Telephone	25.00		
TOTAL INCOME	12,145.00	13,165.73	14,500.00

EXPENSES	BUDGET 1993	12 MOS TO 12-31-93	PROPOSED 1994 BUDGET
Carrier P&M	4,500.00	4,995.75	5,020.00
Christmas Party	900.00	829.30	
Dinner			1,200.00
Dinner Extras			300.00
Awards			260.00
Ham Prizes			500.00
Other Prizes			300.00
Door Prizes	1,500.00	1,616.34	1,500.00
Education	200.00	99.69	200.00
Field Day	150.00	72.00	150.00
Insurance	1,350.00	1,174.00	1,200.00
Membership	1,200.00	1,582.85	1,400.00
Patches/T-Shirts	200.00	394.31	400.00
Picnic	500.00	448.65	500.00
Refreshments	600.00	508.35	600.00
Rent/Coffee	1,000.00	900.00	900.00
State Filing Fee	20.00	15.00	20.00
Telephone	25.00	49.14	50.00
TOTAL EXPENSES	12,145.00	12,685.38	14,500.00

Club Liability:
Scholarship Commitment $1000.00

S. Christian
Club Treasurer

IT'S A BIRD...IT'S A PLANE...IT'S A SUNSPOT!

Sunspots are the most obvious sign of solar activity. Sunspots are regions of very high magnetic field strength on the sun. It has been hypothesized that the differential in solar radiation across the suns surface may wrap "tubes" of magnetic flux around and around the sun. Where such magnetic "tubes" kink and penetrate the solar surface may be the cause of sunspots. Whatever their cause, their number does vary with an eleven year cycle. Most HAMs don't realize that the actual cycle is 22 years if you consider the reversal of magnetic polarity on the sun after each maximum sunspot activity; a twenty two year cycle from like polarity to like polarity or an eleven year cycle form one polarity to the opposite polarity.

The last peak in sunspot activity was in August of 1989. After a lull, sunspot activity is again increasing. To avoid seeing spots before your eyes, sunspot activity can be correlated well with solar flux levels as well as direct observation. From mid-December 1993 to the beginning of January 1994, solar flux has varied from a low of 87 to a high of 148 x 10 to the -22.

Violent activity sometimes occurs in the regions surrounding sunspots. At such time tremendous eruptions called solar flares eject huge quantities particles into space and emit strong radiation throughout the entire frequency spectrum. As DX'ers can testify, solar flares can flood the Earth's upper atmosphere with particles and radiation interrupting radio communications. For example, concomitant with a solar flux of 146, a major flare was announced on WWV as occurring at 22:56 UTC on Sunday, January 2, 1994. The resulting interruption in the magnetosphere occurred the following Monday morning.

More on sunspot activity, solar flares and radio propagation next month.

Carol Conti, KM6PK

MINUTES OF BOARD MEETING
Mt. Diablo Amateur Radio Club

The December Board meeting was held at 7:30 PM on DEC 20, 1993 at Tom Seabury's house in Diablo.

Present at this meeting were Dick Brown, Dick Schulze, Larry Gansz, John Stuart, Stan Christain, Tom Seabury, George Jones, Bruce Smith, and Dick Tomsik.

A motion to approve the minutes of the last Board meeting as they appeared in the Carrier was made, seconded, and approved.

George Jones reported the MDARC membership and the status of the renewals for '94. Also discussed were the members comments added to the membership form.

A discussion on moving the date of the spring action. It was decided to have the spring action on March 18 1994.

The dates for PACIFICON '94 were also presented by Dick Brown. PACIFICON will be held on the 21 through the 23d of October. Because of this date conflicting with the normal MDARC meeting night, the General meeting in October will be changed to Friday the 14 of October.

Upcoming classes for '94 were discussed and those present generally agreed that classes for advanced and extra class would not be too well attended. It was decided however that classes up through General, as well as workshops on packet, ATV, and other topics, will be conducted.

Discussion of the lack of a MDARC logo led the president to appoint a committee of two--Bruce Smith and Dick Brown to study this in conjunction with the selection of a PACIFICON logo.

The Christmas Party was a big success and a short discussion was held regarding the prize and drawing system used. Some board members also suggested that the drawings for prizes should be speeded up at the general meetings. It was decided that this would be discussed at the next board meeting in more detail.

President Dick Schulze, informed the group that the winner of the $1000.00 MDARC Scholarship had been determined and that it will be announced at the January General meeting.

The balance of the meeting was used to discuss the 1994 budget. A motion was made to again allocate $4000.00 to the PACIFICON committee for "seed money" for the '94 show. The motion was seconded and passed by the board. The proposed 1994 budget will be posted in the January Carrier and be voted on by the members at the January meeting.

The January and February Board meetings will be held at Stan Christain's house.

Respectfully Submitted,
Tom Seabury, Secretary, KC6SYG

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MEMBERSHIP DIRECTORY UPDATE

by George Jones, KI6YK

It is with great pleasure we welcome the following new members:

BURNS, Maureen; Awaiting Technician license
136 Doray Drive, Pleasant Hill, CA 94523
(510)682-5053(h)

COLBORN, Sarah; KN6PZ, Advanced
2110 Alexander way, Pleasanton, CA 94588
(510)462-6238(h)

CONTI, Carol; KM6PK, Advanced
432 Palm Avenue, Milbrae, CA 94030-2354
(415)697-2791(h)

ELLIS, Kelly L.; KD6RVS, Technician
58 Chelson Dr., Pittsburg, CA 94565
(510)427-5011(h)

EPSTEIN, Robert; KD6ZXX, Technician
1760 Sattler Dr., Concord, CA 94519
(510)687-0155(h)

MONTANDON, Mary; KE6BCM, Technician
3131 Serra Way, Fairfield, 94533
(707)422-7379(h)

MULLER, Susan J.; KE6AJI, Technician
1810 E. Wildbrook Ct., Concord, CA 94521

PECK, Dennis; KC6HQC, Technician
301 Valley Hill Drive, Pleasant Hill, CA 94523-1080; (510)210-3707(h)

ROUSH, Bertha M.; Awaiting Novice license
2116 Athene Drive, Concord, CA 94519
(510)687-0912(h), (510)676-2600(w)

Congratulations to the following on their upgrade and/or new call:

Bruce Croskey: AH0U
Olof Fredriksson: Advanced
Mason Kelsey: Technician, KE6DEO
Lou Malzone: Advanced
Moose Muller: Technician
Bob Oliver: General
John Remoy: Advanced, KN6SQ
Craig Schirato: Technician, KE6DEA
Nick Schirato: Technician, KE6DIA
Jackie Wyland: Technician, KB7WKT

MDARC MEMBERSHIP RENEWALS

By now you should have renewed your MDARC membership for 1994. If you have not, please do so immediately because your membership in the club will be delinquent if dues are not paid by January 31st. The 1994 club Membership Directory will be published next month and we sure would hate to leave you out of it. So c'mon, lets go!

AN INVITATION

Jack Campbell, WA6ADW, informs us he has move to Grand Junction, CO and has joined the Western Colorado Amateur Radio Club. He states, "The club repeater is 146.94/34 and please check in with us when traveling I-70 on the Salt Lake City/Denver route."

OH! THOSE COMPUTERS

Of course, it's not what was entered, but the computer made a mistake in this column last month erroneously listing **Phil Nesty**'s call. Actually, it's **W9HDR**. The computer appologizes.

PRESIDENT OMMITTED

We've been informed by several sources that **Bill Leoppard**'s name was ommitted from the list of former MDARC presidents published in the September, 1993, Carrier. At the time, Bill's call was WB6NMU. Still a member of MDARC, Bill's current call is KJ6GM. We sincerely regret the error and are glad to set the record straight.

SOME QUESTIONS

We've been asked if the club has repair facilities or a repair person. Well, not exactly. But there are a lot of capable Hams in MDARC and the club has a technical net on the W6CX 2M repeater each Sunday at 1930 where help is often available. And remember, we have Elmer and Technical Assistance Chairmen who can often point you in the right direction for help. Watch the Carrier and Directory for specifics.

And it's again been asked, "How do I get a club Directory?". Directories are published each February and are available free at club meetings or for postage costs by mail on request. Keep watching the Carrier for more information. And be sure to renew your MDARC membership so you will be included in the Directory.

SILENT KEY

Regretfully we announce that MDARC has lost another long time member; Bob Cook, W6UAW. Bob past away on New Years Day. He is survived by his wife Joan and two sons.

Clay Stiles, WD6GDG

THE FOLLOWING WAS COPIED FROM THE JANUARY 1994 ISSUE OF WORLDRADIO







Top left: Al Biegler, WA6WJZ, Pacific Division '92 Amateur of the Year receives award from Pacific Division Director Chuck McConnell, W6DPD. Right: Continuing service recognition was given to Fred Silveira, K6RAU, for his on-the-air code practice. Above: S. Marti-Volkoff, Regional Engineer of the FCC.

Concord hosts Pacificon '93

ARMOND NOBLE, N6WR

So you think your knowledge of: (choose one) digital signal processing; satellites; packet; antennas; DX; is not what it could be, but you hate to admit it to your ham friends or club members. You don't want to ask what you think would be "dumb questions."

Well, here's the answer. Just toss five dollars on the counter and you can attend forums for two days. (Three dollars if you pre-registered.)

We're talking about the ARRL Pacific Division Convention which was held in Concord, CA (27 miles east of San Francisco) on 22-24 October.

Local experts and ARRL technical staff presented seminars and you could ask all the questions you wanted during the forums and individually approach the speakers as you saw them walking around.

About 3,000 hams were informed or entertained courtesy of the hard work of the Mount Diablo Amateur Radio Club. (That's W6CX of Field Day fame.)

A good part of a convention is just chatting with old friends and making new ones. The lobby and the courtyard of the Concord Hilton Hotel were the gathering places for many. The hotel got into the act by featuring a hot dog and hamburger cookout in the courtyard so lunch could be quickly dispatched and then you could get back to the activities.

As usual, the major transceiver manufacturers were on hand to extol their particular virtues and answer all questions.

Also exhibiting were some smaller and emerging companies with acces-

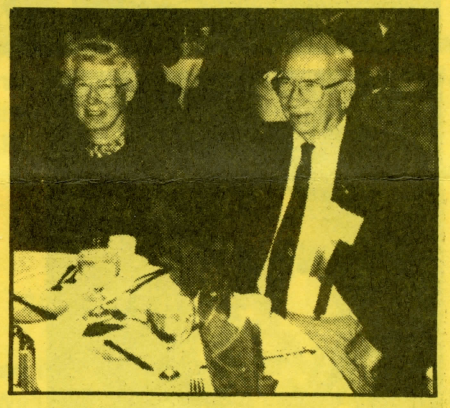


Fred J. Hufft, W4PLM, mans his Startek booth.

THE FOLLOWING WAS COPIED FROM THE JANUARY 1994 ISSUE OF WORLDRADIO







sories. Usually the person manning the booth was the engineer/owner of the company who could explain all the nuances of their product.

Of course, there was a swap meet and a transmitter hunt. One special feature of the Pacific Division convention is that for many years Friday night has been devoted to Emergency Preparedness Forums. Among the presenters this year was Captain Al Haynes, retired United Airlines pilot (credited with saving many lives in landing a crippled airliner in Sioux City, IA. See Nov. '89 ***Worldradio***.) He had a packed audience for both his presentations.

The San Francisco Bay Area is emergency conscious, and with good reason. One of the prime movers in keeping all on their toes is Jerry Boyd, Chief of Police, Martinez, CA. He's KG6LF, and with wife Jay (Ph.D.), KN6BP, has just written "When The Big One Hits... A Survival Guide for Amateur Radio Operators," (available from ***Worldradio Books.***)

One highlight of the convention was the banquet address by S. Marti-Volkoff, Regional Engineer of the FCC. The recounting of adventures in chasing down interference was done in a highly humorous manner.

We highly commend those diligent workers from Mount Diablo ARC for a convention well done! WR

Top left going clockwise: The Martinez Police Emergency vehicle; Chris Imlay, N3AKD, ARRL Legal Counsel in Washington; Dorothy & John Obal, KA6SQN; Jerry Boyd, KG6LF, Martinez Police Chief.

— All photos by Armond Noble, N6WR.



If you're not subscribing to Worldradio, you're missing a lot of Amateur Radio news.

MDARC/RRRG QUAKE-NET INSTRUCTIONS

Immediately after feeling an earthquake, listen to 147.060/+(100 pl).
When frequency is clear, quickly and clearly transmit in the following sequence::
LOCATION, OBSERVATION, NAME and CALL SIGN.
If a Hospital or ARES/RACES net control is established, relinquish use of repeater and break only with urgent traffic using your CALL SIGN and LOCATION or CITY

The Mount Diablo Amateur Radio Club

P.O. Box 23222
Pleasant Hill, CA 94523

Meetings:
Third Friday Each Month
8:00 PM / 2000 hours
Our Savior Lutheran Church
1035 Carol Lane, Lafayette, CA

1994 Club Officers

President:
Dick Schulze, AA6DL
(510)935-5000

Vice President:
John Stuart, KM6QX
(510)283-2797

Secretary:
Richard Shappee, WA5HQJ
(510)682-1644

Treasurer:
Stan Christian, WU6P
(510)672-0330

Membership Chairman:
George Jones, KI6YK
(510)837-9316

Emergency Coordinator:
Bruce Smith, KC6JMN
(510)934-1735

Directors:
Tom Seabury, KC6SYG
(510)837-4433
Larry Gansz, KB2GV
(510)356-2411

MDARC-PACIFICON HOT LINE

(510)932-6125

Contra Costa County ARES/RACES Nets

Thursdays, 1900 Hours

Central County - 145.680/s
Jim Brunk, N6BHX
(510)372-8248

East County - 146.535/s
Jim Tittle, KC6SOE
(510)432-3220

South County - 146.355/+(100 pl)
George Jones, KI6YK
(510)837-9316

West County - 145.110/-
Rachel Lewellen, KB6LHR
(510)233-5034

QSY to 147.735/- at 1920 Hours
Meeting of all County ARES\RACES Nets

The Rocky Ridge Repeater Group

P.O. Box 23222
Pleasant Hill, CA 94523

Next Meeting:
Third Wednesday Of Odd Months
8:00 PM / 2000 hours
Stonebrook Convalescent Center
Concord Blvd., Concord, CA

Club Officers

Chairman:
Dwane McGlothin, N6SPX
(510)798-2868

Technical Chairman:
Mike Burke, KB6RMT
(510)682-7896

RRRG Repeaters

147.060/+(100 pl)
224.780/-(077 pl)
441.325/+(100 pl)
ATV - Input - 1253.250
Output - 427.250 (Cable CH 58)

RRRG Nets

Phone Net - Thursdays
1930 Hours, 147.060/+(100 pl)
Net Control: Jay Caldis, KT6Y
ATV Net - Thursdays
2000 Hours, Net Control:
Mike Burke, KB6RMT,
Alt.: Don Smith, W6NKF,
Technical Net - Sundays
1930 Hours, 147.060/+(100 pl)
Net Control: Jeff Jones, AB6MB

Contra Costa County Emergency Services HF Net

First Thursday following
first Wednesday,
2000 Hours, 3.895 MHz
Net Control:
Hank Berriman, W6ZHY, AEC

Carrier

Editor: Greydon H. Hicks, KC6SLE
4517 Shellflower Ct., Concord 94518
(510)798-1251
Folding: Jay Caldis, KT6Y
Mailing: Walt Ebbett, KB6QIB
Labels: George Jones, KI6YK

Sheriff's Amateur Radio Communications Team

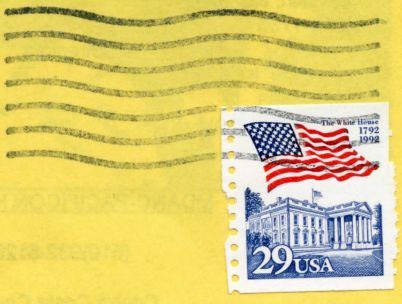
Clay Yale, N6YBQ
(510)228-8223

The Carrier is a monthly publication of the Mount Diablo Amateur Radio Club (MDARC). This publication is open to all members of MDARC and it is the policy of this Editor to publish all articles submitted by the membership as long as such articles are not obscene, pertain to Amateur Radio, are of interest to the members of MDARC and space is available. Articles are due by the first of each month and are accepted on a first come, first in basis. Articles should be submitted by packet, KC6SLE @ WA6AEO.#NOCAL.USA.NA or packet mailbox, KC6SLE-1 or by modem to the Doug Smith's No Name Yet bulletin board, File area #23, at (510) 827-5714 or delivered to the Editor in ASCII format on either 5.25" or 3.5" computer disk. The standard font is Arial 9 point. The Editor's address can be found in the Carrier or MDARC Membership Directory. Articles published in the Carrier may be reproduced provided that such reproduction credits both MDARC and the author of the article. Copyrighted articles will not be accepted for publication in the Carrier.

CALENDAR OF EVENTS		
Livermore Swapmeet	Las Positas College Livermore	First Sunday Each Month All Year, 7 AM to Noon
RACES Monthly Meeting	State OEC, Civic Dr. Pleasant Hill	First Wednesday Every Month, 7:30 PM
MDARC General Membership Meeting	Our Savior Lutheran Church 1035 Carol Ln., Lafayette	Friday January 21, 1994
Deadline for Carrier Articles	NA	Tuesday, February 1, 1994
MDARC T-Hunt	Location TBA	Second Saturday, 7:00 PM
RRRG Balloon Committee	Stonebrook Convalescent Center 4367 Concord Blvd, Concord	TBA
RRRG General Membership Meeting	Stonebrook Convalescent Center 4367 Concord Blvd, Concord	Wednesday, January 19, 1994, 8:00 PM

The Carrier
a newsletter of the
Mount Diablo Amateur Radio Club
P.O. Box 23222
Pleasant Hill, CA 94523

OAKLAND CA 945 PM 12 JAN 1994



FIRST CLASS MAIL

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NEXT MDARC MEETING IS JANUARY 21, 1994
NEXT RRRG MEETING IS JANUARY 19, 1994